



blade optimization and incidence and pareto a

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### Self-organizing Maps for Pareto Optimization of Airfoils

D Bueche, G Guidati, P Stoll, P Koumoutsakos - PPSN, 2002 - springerlink.com

... are then stacked to a 3D wing or **blade**. ... part describes a formulation for the **Pareto optimization** of com ... operates with a minimal number of **incidence** calculations ...

Cited by 5 - Web Search - [wanda.fh-aargau.ch](#) - [wanda.fh-aargau.ch](#) - [portal.acm.org](#)

### Transonic axial-flow blade shape optimization using evolutionary algorithm and three-dimensional ...

A Oyama, MS Liou, S Obayashi - ... and Exhibit on Multidisciplinary Analysis and **Optimization**, ..., 2002 - [pdf.aiaa.org](#)

... spans are diminished by increasing the **incidence** angles ... reliable and efficient aerodynamic design **optimization** tool for transonic compressor **blade** has been ...

Cited by 6 - Web Search - [pdf.aiaa.org](#) - [flab.eng.isas.ac.jp](#) - [csa.com](#)

### Cross-flow fan design guidelines for multi-objective performance optimization

A Toffolo, A Lazzaretto, AD Martegani - [ingentaconnect.com](#)

... the edges of the blades (zero **incidence** at ... c) vortex wall thickness, (d) impeller **blade** angles (with ... The solutions to multi-objective **optimization** problems are ...

Cited by 3 - Web Search - [ingentaconnect.com](#) - [csa.com](#) - [csa.com](#)

### Automated design optimization of compressor blades for stationary, large-scale turbomachinery

D Buche, G Guidati, P Stoll - Proceedings of the ASME/IGTI Turbo Expo 2003 - [wanda.fh-aargau.ch](#)

... criteria for a good compressor **blade** is the ... A comparison with optimizations for single **incidence** showed that ... This indicates the **optimization** procedure does not ...

Cited by 1 - View as HTML - Web Search - [wanda.fh-aargau.ch](#) - [icos.ethz.ch](#)

### Three-dimensional multi-objective design optimization of a transonic compressor rotor

E Benini - Journal of Propulsion and Power, 2004 - [pdf.aiaa.org](#)

... point defined by the inlet Mach number and **incidence** angle, the ... **Blade Geometry**

Definition To make the results of the **optimization** comparable to those re ...

Cited by 1 - Web Search - [csa.com](#) - [csa.com](#)

### FLOW OPTIMIZATION USING STOCHASTIC ALGORITHMS

SD Muller, D Buche, P Koumoutsakos - [turbulence-control.gr.jp](#)

... continuous increase of losses over the absolute **incidence**. ... GR, Sheard, AG, "Automatic **Genetic Optimization** Approach to Two-Dimensional **Blade** Profile Design ...

Web Search

### High-fidelity swept and leaned rotor blade design optimization using evolutionary algorithm

A Oyama, MS Liou, S Obayashi - 16 th AIAA Computational Fluid Dynamics Conference, 2003 - [pdf.aiaa.org](#)

... and 33% spans, the optimized design has decreased **incidence** angles. ... proves that

EA-based high-fidelity compressor **blade** design **optimization** is extremely ...

Web Search - [aandj.hp.infoseek.co.jp](#) - [csa.com](#)

Transonic axial-flow blade optimization: evolutionary algorithms/three-dimensional Navier-Stokes ...

A Oyama, MS Liou, S Obayashi - Journal of Propulsion and Power, 2004 - pdf.aiaa.org  
... Figure 7 presents an **optimization** history in terms of an objec ... Figures 10 and 11  
show the **blade** profiles and the ... because of the decrease of the **incidence** angle. ...  
Web Search - csa.com

Multiobjective genetic algorithm applied to aerodynamic design of cascade airfoils

S Obayashi, T Tsukahara, T Nakamura - IEEE Transactions on Industrial Electronics, 2000 - ieeexplore.ieee.org  
... of 14.4 , and a **blade** pitch of ... compressor cascade with increasing **incidence**," J.  
Turbomachinery ... application of genetic algorithms to aerodynamic **optimization**. ...  
Cited by 9 - Web Search - ieeexplore.ieee.org - csa.com

Development of high-performance airfoils for axial flow compressors using evolutionary computation

E Benini, A Toffolo - Journal of Propulsion and Power, 2002 - pdf.aiaa.org  
... Scope of the Design Optimization The ultimate goal of ... design is to create a **blade**  
with maximum pressure rise and ... a high cambered profile at low **incidence** angles or ...  
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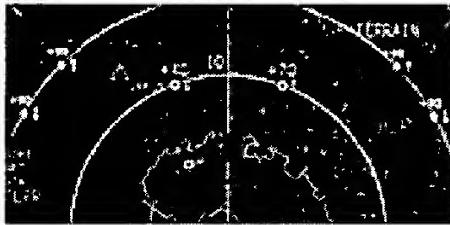
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Yoshihiro Yamaguchi and Toshiyuki Arima (Honda Corp., Saitama, Japan)

AIAA-2000-4909

AIAA/USAF/NASA/ISSMO Symposium on Multidisciplinary Analysis and Optimization, 81 Beach, CA, Sept. 6-8, 2000

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L2	1	pareto same blade same optimiz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:44
L3	3	pareto same blade same design\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 15:48
L4	0	pareto same airfoil same design\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 15:48
L5	0	MOGA same airfoil same design\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 15:48
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L10	0	MOGA same turbine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:08

L12	3	703/? .ccls. and (blade or airfoil) same turbine same optimiz\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:23
L13	0	706/? .ccls. and (blade or airfoil) same turbine same optimiz\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:23
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L15	11	415/? .ccls. and (blade or airfoil) same turbine same optimiz\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:43
L16	2	pareto same blade and optimiz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:45
L17	3	incidence adj toughness	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:46
L18	23	incidence near6 blade same optimiz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:49
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L20	124	incidence near6 angle same blade and optimiz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 16:49
L21	94	L20 and @ad<"20010815"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 17:02

L22	41	incidence same blade same optimiz\$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/15 17:01
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**PALM INTRANET**
**Inventor Name Search Result**

Your Search was:

Last Name = ARIMA

First Name = TOSHIYUKI

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<a href="#"><u>08242815</u></a>	Not Issued	166	05/16/1994	STRUCTURE OF INSTRUMENT PANEL PORTION FOR USE IN VEHICLES	ARIMA, TOSHIYUKI
<a href="#"><u>08438667</u></a>	5549344	150	05/10/1995	STRUCTURE OF INSTRUMENT PANEL PORTION FOR USE IN VEHICLES	ARIMA, TOSHIYUKI
<a href="#"><u>08438724</u></a>	Not Issued	166	05/10/1995	STRUCTURE OF INSTRUMENT PANEL PORTION FOR USE IN VEHICLES	ARIMA, TOSHIYUKI
<a href="#"><u>08438736</u></a>	Not Issued	161	05/10/1995	STRUCTURE OF INSTRUMENT PANEL PORTION FOR USE IN VEHICLES	ARIMA, TOSHIYUKI
<a href="#"><u>08699695</u></a>	5685595	150	08/15/1996	STRUCTURE OF INSTRUMENT PANEL PORTION FOR USE IN VEHICLES	ARIMA, TOSHIYUKI
<a href="#"><u>09112928</u></a>	6285968	150	07/09/1998	OBJECT SHAPE DETERMINING METHOD	ARIMA, TOSHIYUKI
<a href="#"><u>09866924</u></a>	6527510	150	05/30/2001	STATOR BLADE AND STATOR BLADE CASCADE FOR AXIAL-FLOW COMPRESSOR	ARIMA, TOSHIYUKI
<a href="#"><u>09930914</u></a>	Not Issued	71	08/15/2001	Blade shape designing method, program thereof and information medium having the program recorded thereon	ARIMA, TOSHIYUKI
<a href="#"><u>09985177</u></a>	6638021	150	11/01/2001	TURBINE BLADE AIRFOIL, TURBINE BLADE AND TURBINE BLADE CASCADE FOR AXIAL-FLOW TURBINE	ARIMA, TOSHIYUKI

<a href="#"><u>10087986</u></a>	<a href="#"><u>6666654</u></a>	150	03/05/2002	TURBINE BLADE AIRFOIL AND TURBINE BLADE FOR AXIAL-FLOW TURBINE	ARIMA, TOSHIYUKI	
<a href="#"><u>10410215</u></a>	<a href="#"><u>6802474</u></a>	150	04/10/2003	ADVANCED HIGH TURNING COMPRESSOR AIRFOILS	ARIMA, TOSHIYUKI	
<a href="#"><u>10803554</u></a>	Not Issued	71	03/18/2004	High-turning and high-transonic blade	ARIMA, TOSHIYUKI	
<a href="#"><u>11016470</u></a>	Not Issued	30	12/17/2004	Fluid analyzing apparatus, fluid analyzing method, and fluid analyzing program	ARIMA, TOSHIYUKI	

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